

SELF TEST EMERGENCY BALLAST

ABSTRACT

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[0039] An emergency lighting battery system for handling failure of primary power sources.

A processing device contains a state-machine, which includes the steps of initialization, start-up, charge, test, and emergency response. Variables, parameters, and flags are stored in volatile and non-volatile memory. A watch-dog timer is utilized to recover from processor lock-up. A single voltage input wire is utilized for both 120VAC and 277VAC power sources. A time-delay is utilized for compatibility with most ballasts. Recent test and status information is transmitted through an audible speaker or light-emitting device.